UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/559,986	09/11/2006	James McCarthy	112701-667	6606
	7590 04/23/200 & LLOYD LLP	EXAMINER		
P.O. Box 1135			SWOPE, SHERIDAN	
CHICAGO, IL 60690			ART UNIT	PAPER NUMBER
			1652	
			NOTIFICATION DATE	DELIVERY MODE
			04/23/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PATENTS@BELLBOYD.COM

		Арр	ication No.	Applicant(s)	Applicant(s)			
Office Action Summary			59,986	MCCARTHY ET	MCCARTHY ET AL.			
			niner	Art Unit				
		SHE	RIDAN SWOPE	1652				
<i>Th</i> Period for Re	e MAILING DATE of this communic	cation appears o	on the cover sheet w	with the correspondence a	address			
WHICHEN - Extensions after SIX (6 - If NO perio - Failure to ro Any reply ro	ENED STATUTORY PERIOD FOYER IS LONGER, FROM THE MAGO of time may be available under the provisions of MONTHS from the mailing date of this community of for reply is specified above, the maximum state perly within the set or extended period for reply we see the control of the	ALING DATE C f 37 CFR 1.136(a). Ir nication. utory period will apply rill, by statute, cause t	OF THIS COMMUN no event, however, may a and will expire SIX (6) MO the application to become a	IICATION. a reply be timely filed DNTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).				
Status								
1)⊠ Res	ponsive to communication(s) filed	l on <i>08 Decemb</i>	ner 2005					
·	•	b)∐ This action						
<i>′</i> =		<i>7</i> —		tters, prosecution as to t	he merits is			
•—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition o	of Claims	·	•					
· _		nlication						
•	Claim(s) <u>1-23</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
	4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed.							
•	m(s) is/are rejected.							
	m(s) is/are objected to.							
•	m(s) <u>1-23</u> are subject to restrictio	n and/or electio	n requirement					
·		ir aria/or olootio	ii roquii omonii.					
Application F	'apers							
•	specification is objected to by the							
10) <u></u> The	drawing(s) filed on is/are:	a)∏ accepted	or b)⊡ objected to	b by the Examiner.				
Арр	icant may not request that any object	ion to the drawin	g(s) be held in abeya	ance. See 37 CFR 1.85(a).				
	acement drawing sheet(s) including		•		, ,			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority unde	r 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice of D 3) Information	deferences Cited (PTO-892) Praftsperson's Patent Drawing Review (PT In Disclosure Statement(s) (PTO/SB/08) Is)/Mail Date	⁻ O-948)	Paper No	y Summary (PTO-413) o(s)/Mail Date f Informal Patent Application 				

Application/Control Number: 10/559,986 Page 2

Art Unit: 1652

DETAILED ACTION

Claims 1-23 are pending.

Election/Restrictions

Restriction is required under 35 U.S.C. 121.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, Claims 1-4, 13-16, and Claims 17-21 in part, drawn to a polynucleotide encoding a cysteine protease.

Group II, Claims 5-8, and Claims 17-21 in part, drawn to a polynucleotide encoding a cysteine protease inhibitor.

Group III, Claims 9-12, and Claims 17-21 in part, drawn to a polynucleotide encoding an aspartic endoprotease.

Group IV, Claims 22, drawn to a transgenic plant comprising a polynucleotide.

Group V, Claims 23, drawn to a method for modulating coffee flavour precursor levels using a polynucleotide.

For each of Inventions I-V above, restriction to one of the following is also required under 35 USC 121. Therefore, election is required of one of Inventions I-V <u>and</u> one of Inventions (A)-(P).

If <u>Group I</u> is elected, elect one of:

- (A.) Encoding SEQ ID NO: 2
- (B.) Encoding SEQ ID NO: 16

If Group II is elected, elect one of:

- (C.) Encoding SEQ ID NO: 4
- (D.) Encoding SEQ ID NO: 10
- (E.) Encoding SEQ ID NO: 12
- (F.) Encoding SEQ ID NO: 14

Application/Control Number: 10/559,986 Page 3

Art Unit: 1652

If <u>Group III</u> is elected, elect one of:

- (G.) Encoding SEQ ID NO: 6
- (H.) Encoding SEQ ID NO: 8

If Group IV is elected, elect one of:

- (A.) Encoding SEQ ID NO: 2
- (B.) Encoding SEQ ID NO: 16
- (C.) Encoding SEQ ID NO: 4
- (D.) Encoding SEQ ID NO: 10
- (E.) Encoding SEQ ID NO: 12
- (F.) Encoding SEQ ID NO: 14
- (G.) Encoding SEQ ID NO: 6
- (H.) Encoding SEQ ID NO: 8

If <u>Group V</u> is elected, elect one of:

- (I.) Encoding SEQ ID NO: 2
- (J.) Encoding SEQ ID NO: 16
- (K.) Encoding SEQ ID NO: 4
- (L.) Encoding SEQ ID NO: 10
- (M.) Encoding SEQ ID NO: 12
- (N.) Encoding SEQ ID NO: 14
- (O.) Encoding SEQ ID NO: 6
- (P.) Encoding SEQ ID NO: 8

The inventions listed as Groups I-V(A)-(P) do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical feature for the following reasons: The technical feature linking Groups I-V(A)-(P) appears to be that they all relate to proteases. However, proteases were well known in the art. Moreover, Schaller et al, 1996 teaches a polynucleotide encoding a protein having 83% homology to SEQ ID NO: 8, which anticipates Claim 9 (see enclosed alignment). Therefore Groups I-V(A)-(P) share no special technical feature as defined by PCT Rule 13.2, as it does not define a contribution over the prior art. Furthermore, the products of Groups I-IV do not share a special common structural and functional feature while, the methods of Group V do not comprise all of the methods for making or using the products of Groups I-IV. Accordingly,

Groups I-V(A)-(P) are not so linked by the same or a corresponding special technical feature as to form a single general inventive concept.

Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:

- (a) the inventions have acquired a separate status in the art in view of their different classification;
- (b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;
- (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
- (d) the prior art applicable to one invention would not likely be applicable to another invention;
- (e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Application/Control Number: 10/559,986 Page 5

Art Unit: 1652

To insure that each document is properly filed in the electronic file wrapper, it is

requested that each of amendments to the specification, amendments to the claims, Applicants'

remarks, requests for extension of time, and any other distinct papers be submitted on separate

pages.

It is also requested that Applicants identify support, within the original application, for

any amendments to the claims and specification.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sheridan L. Swope whose telephone number is 571-272-0943.

The examiner can normally be reached on M-F; 9:30-7 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Dr. Nashed can be reached on 571-272-0934. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published application

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on the access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/SHERIDAN SWOPE/

Primary Examiner, Art Unit 1652